

Homework:  
correct the test  
questions:

1. Why learn about history of science?
2. Calculate the deBroglie wavelength of a 50.0 kg student running at 4.0 m/s. Compare to an electron, mass  $9.11 \times 10^{-27}$  kg moving at  $2.0 \times 10^6$  m/s.  $h = 6.62 \times 10^{-34}$  Js
3. The energy of orbitals in the hydrogen atom is given by  
 $E = - (13.6 \text{ eV})/n^2$   
What is the energy of the emitted photon when an electron drops from the 3rd to the first orbital? What is the wavelength? is it visible?